



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.03/PSG/CSR-1/730e/CEMENT/2014-15

Date: 13.01.2015



TEST REPORT ON CEMENT

* CUSTOMER	: Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
* AGENCY	: Mr. P. Shekar Gowda, No.152, 2 nd Block, 3 rd Stage, S.J. Halli, B.S. Nagara, Bangalore.
* NAME OF THE WORK	: Construction of drains and culverts in Escort Layout 1 st to 7 th main road in Attur Ward No.03, BBMP, Bangalore.
* REFERENCE	: BBMP/AEE/YNSD/37/2014-15 Dated: 09.01.2015
SAMPLE ID	: Cement
SAMPLE RECEIVED ON	: 09.01.2015
PERIOD OF TESTING	: 09.01.2015 to 13.01.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH C
Quality Manager



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Job No.: CTCE/BBMP/W.No.03/PSG/CSR-I/730e/SAND-Gradation/2014-15

: 13.01.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : Mr. P. Shekar Gowda,
No.152, 2nd Block, 3rd Stage, S.J. Halli, B.S. Nagara, Bangalore.

* Name of Work : Construction of drains and culverts in Escort Layout 1st to 7th main road in Attur Ward No.03, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/37/2014-15 Dated: 09.01.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 09.01.2015

Date of Testing : 13.01.2015



Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.40	90-100	90-100	90-100	95-100
2.36	78.60	60-95	75-100	85-100	95-100
1.18	51.80	30-70	55-90	75-100	90-100
600 Micron	32.20	15-34	35-59	60-79	80-100
300 Micron	16.20	5-20	8-30	12-40	15-50
150 Micron	6.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.03/PSG/CSR-1/730e/AGG/GR/2014-15



13.01.2015

TEST REPORT ON COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : Mr. P. Shekar Gowda,
No.152, 2nd Block, 3rd Stage, S.J. Halli, B.S. Nagara, Bangalore.

* Name of Work : Construction of drains and culverts in Escort Layout 1st to 7th main road in Atkur Ward No.03, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/37/2014-15 Dated: 09.01.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 09.01.2015

Date of Testing : 13.01.2015

Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.50	95-100	85-100
20	43.85	30-70	0-20
10	13.65	10-35	0-5
4.75	3.65	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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P. Shekar
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Job No: CTCE/BBMP/W.No.03/PSG/CSR-I/730e/CC Solid Block/2014-15

: 17.01.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : Mr. P. Shekar Gowda,
No.152, 2nd Block, 3rd Stage, S.J. Halli, B.S. Nagara, Bangalore.

* Name of the Work : Construction of drains and culverts in Escort Layout 1st to 7th main road in Attur Ward No.03, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/37/2014-15 Dated: 09.01.2015

Sample Received on : 13.01.2015

Date of Testing : 17.01.2015

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm²

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08



Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	25.29	260.3	3.25	Minimum required Compressive Strength of Individual Units 3.20 N/mm ²
2	Block 2	26.30	263.5	3.29	
3	Block 3	25.45	261.2	3.27	
4	Block 4	26.10	263.4	3.29	
5	Block 5	26.35	260.5	3.26	
6	Block 6	25.98	259.8	3.25	
7	Block 7	24.12	259.3	3.24	
8	Block 8	25.36	262.8	3.29	

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Job No: CTCE/BBMP/W.No.03/PSG/STEEL/2014-15

17.01.2015



TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Yelahanka New Town
Sub Division, BBMP, Bangalore.

Agency : Mr. P. Shekar Gowda,
No.152, 2nd Block, 3rd Stage, S.J. Halli, B.S. Nagara,
Bangalore.

Name of the work : Construction of drains and culverts in Escort Layout
1st to 7th main road in Attur Ward No.03, BBMP,
Bangalore.

Reference : BBMP/AEE/YNSD/37/2014-15 Dated: 09.01.2015

Date of Test : 17.01.2015

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	515	558	13.40	O.K	O.K

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Job No: CTCF/BBMP/W.No.03/PSG/CSR-1/730e/Kerb stone/2014-15

23.01.2015

CEMENT CONCRETE CORE (PRE CAST SLAB) TEST REPORT

* Name of Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Name of Agency : Mr. P. Shekar Gowda,
No.152, 2nd Block, 3rd Stage, S.J. Halli, B.S. Nagara, Bangalore.

* Name of work : Construction of drains and culverts in Escort Layout 1st to 7th main road in Attur Ward No.03, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/37/2014-15 Dated: 09.01.2015

Technical Reference : IS:516-1959 (Reaffirmed 2008), SP-24:1983.

Sample ID : Kerb Stone

Sample Received on : 17.01.2015

Date of Testing : 23.01.2015



Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	81.00	0.402	2527.62	1.62	0.960	25.10	12.78	13.81	13.25	16.57
2	50.00	84.00	0.420	2546.48	1.68	0.970	25.90	13.19	14.25	13.82	17.27
3	50.00	82.00	0.407	2527.85	1.64	0.965	25.45	12.96	14.00	13.51	16.89

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.03/PSG/CSR-1/730e/CUBE/2014-15

26.02.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
- * Agency : Mr. P. Shekar Gowda,
No.152, 2nd Block, 3rd Stage, S.J. Halli, B.S. Nagara, Bangalore.
- * Name of the work : Construction of drains and culverts in Escort Layout 1st to 7th main road in Attur Ward No.03, BBMP, Bangalore.
- * Reference : BBMP/AEE/YNSD/37/2014-15 Dated: 09.01.2015
- * Sample ID : Cement Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 29.01.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	29.01.2015	26.02.2015	8.274	496.3	22.06
2	29.01.2015	26.02.2015	8.149	478.2	21.25
3	29.01.2015	26.02.2015	8.364	506.5	22.51

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Quality Manager

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